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NEWS	5	JAN 28	MARPAT searching enhanced
NEWS	6	JAN 28	USGENE now provides USPTO sequence data within 3 days of publication
NEWS	7	JAN 28	TOXCENTER enhanced with reloaded MEDLINE segment
NEWS	8	JAN 28	MEDLINE and LMEDLINE reloaded with enhancements
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NEWS	12	FEB 25	IMSPRODUCT reloaded with enhancements
NEWS	13	FEB 29	WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification
NEWS	14	MAR 31	IFICDB, IFIPAT, and IFIUIDB enhanced with new custom IPC display formats
NEWS	15	MAR 31	CAS REGISTRY enhanced with additional experimental spectra
NEWS	16	MAR 31	CA/CAPplus and CASREACT patent number format for U.S. applications updated
NEWS	17	MAR 31	LPCI now available as a replacement to LDPCI
NEWS	18	MAR 31	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS	19	APR 04	STN AnaVist, Version 1, to be discontinued
NEWS	20	APR 15	WPIDS, WPINDEX, and WPIX enhanced with new predefined hit display formats
NEWS	21	APR 28	EMBASE Controlled Term thesaurus enhanced
NEWS	22	APR 28	IMSRESEARCH reloaded with enhancements
NEWS	23	MAY 30	INPAFAMDB now available on STN for patent family searching
NEWS	24	MAY 30	DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option
NEWS	25	JUN 06	EPFULL enhanced with 260,000 English abstracts
NEWS	26	JUN 06	KOREAPAT updated with 41,000 documents
NEWS	27	JUN 13	USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS	28	JUN 19	CAS REGISTRY includes selected substances from web-based collections
NEWS	29	JUN 25	CA/CAPplus and USPAT databases updated with IPC reclassification data
NEWS	30	JUN 30	AEROSPACE enhanced with more than 1 million U.S. patent records
NEWS	31	JUN 30	EMBASE, EMBAL, and LEMBASE updated with additional

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options to display authors and affiliated
organizations
NEWS 32 JUN 30 STN on the Web enhanced with new STN AnaVist
Assistant and BLAST plug-in
NEWS 33 JUN 30 STN AnaVist enhanced with database content from EPFULL

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AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

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FILE 'HOME' ENTERED AT 16:43:22 ON 01 JUL 2008

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=> file medline, uspatful, dgene, embase, wpids, fsta, biosis, biotechds
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                                ENTRY      SESSION
FULL ESTIMATED COST          0.42          0.42

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FILE 'MEDLINE' ENTERED AT 16:44:29 ON 01 JUL 2008

FILE 'USPATFULL' ENTERED AT 16:44:29 ON 01 JUL 2008  
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=> s (l-lysine or l-arginine) and (production)
L1      47341 (L-LYSINE OR L-ARGININE) AND (PRODUCTION)

```

```

=> s l1 and (DNA)
L2      17789 L1 AND (DNA)

```

```

=> s l2 and (lyse protein)

```

L3 15 L2 AND (LYSE PROTEIN)

=> e gunji, y

E1	1	GUNJETSPRAY/BI
E2	118	GUNJI/BI
E3	0 -->	GUNJI, Y/BI
E4	2	GUNJIAN/BI
E5	5	GUNJII/BI
E6	1	GUNJIKAR/BI
E7	6	GUNJIMA/BI
E8	1	GUNJINA/BI
E9	2	GUNJISHIMA/BI
E10	8	GUNJO/BI
E11	1	GUNJO4000/BI
E12	1	GUNJOH/BI

=> e gunji, Y/au

E1	57	GUNJI YUKIO PEGIO/AU
E2	2	GUNJI YURIKO/AU
E3	0 -->	GUNJI, Y/AU
E4	1	GUNJIAL NASEEM IQBAL/AU
E5	4	GUNJIAN/AU
E6	4	GUNJIAN A G/AU
E7	5	GUNJIAN ARMEN G/AU
E8	2	GUNJIC R/AU
E9	1	GUNJIE/AU
E10	1	GUNJIE T/AU
E11	1	GUNJIGAKE/AU
E12	1	GUNJIGAKE K/AU

=> e yasueda, H/au

E1	3	YASUEDA SHINJI/AU
E2	9	YASUEDA T/AU
E3	0 -->	YASUEDA, H/AU
E4	1	YASUF/AU
E5	1	YASUF A/AU
E6	1	YASUF HIROAKI/AU
E7	1	YASUF TONY E/AU
E8	1	YASUF UMI KALSOM/AU
E9	1	YASUF ZADE E K/AU
E10	1	YASUFAKU KAZUHIRO/AU
E11	1	YASUFI A N K/AU
E12	1	YASUFTIKU KAZUHIRO/AU

=> s methylophilus or methylobacillus

L4 2037 METHYLOPHILUS OR METHYLOBACILLUS

=> s l4 and (S-2-aminoethyl)cysteine

MISSING OPERATOR MINOETHYL)CYSTEINE

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> s (S-2-aminoethyl-cysteine)

L5 468 (S-2-AMINOETHYL-CYSTEINE)

=> d his

(FILE 'HOME' ENTERED AT 16:43:22 ON 01 JUL 2008)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, FSTA, BIOSIS, BIOTECHDS'  
ENTERED AT 16:44:29 ON 01 JUL 2008

L1 47341 S (L-LYSINE OR L-ARGININE) AND (PRODUCTION)  
 L2 17789 S L1 AND (DNA)  
 L3 15 S L2 AND (LYSE PROTEIN)  
     E GUNJI, Y  
     E GUNJI, Y/AU  
     E YASUEDA, H/AU  
 L4 2037 S METHYLOPHILUS OR METHYLOBACILLUS  
 L5 468 S (S-2-AMINOETHYL-CYSTEINE)

=> s 15 and 13

L6 7 L5 AND L3

=> d 16 ti abs ibib tot

L6 ANSWER 1 OF 7 USPATFULL on STN

TI Method for Producing Basic Substance

AB A method for producing a basic substance by fermentation comprising culturing a microorganism having an ability to produce the basic substance in a liquid medium contained in a fermentation tank to produce and accumulate the basic substance in the medium, wherein amount of sulfate and/or chloride ions used as counter ions of the basic substance is reduced by adjusting total ammonia concentration in the medium to be within a specific concentration range during at least a part of the total period of culture process.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2007:278157 USPATFULL

TITLE: Method for Producing Basic Substance

INVENTOR(S): Takeshita, Ryo, Kawasaki-shi, JAPAN  
 Sugimoto, Shinichi, Kawasaki-shi, JAPAN

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20070243590	A1	20071018
APPLICATION INFO.:	US 2007-697794	A1	20070409 (11)
RELATED APPLN. INFO.:	Continuation of Ser. No. WO 2005-JP18657, filed on 7 Oct 2005, UNKNOWN		

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2004-295123	20041007
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	CERMAK & KENEALY LLP, ACS LLC, 515 EAST BRADDOCK ROAD, SUITE B, ALEXANDRIA, VA, 22314, US	
NUMBER OF CLAIMS:	17	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	6 Drawing Page(s)	
LINE COUNT:	2705	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 2 OF 7 USPATFULL on STN

TI Method for producing L-lysine or L-arginine by using methanol-assimilating bacterium

AB A DNA encoding a variant of a protein, the protein having a loop region and six hydrophobic helixes and involved in secretion of L-lysine to the outside of a cell, wherein the DNA encodes a variant of a protein not containing the loop region and facilitates secretion of L-lysine, L-arginine or both of these L-amino acids to the outside of a cell of a methanol-assimilating bacterium when the

DNA is introduced into the bacterium, specifically lysE24, is introduced into a Methylobacillus bacteria to improve L-amino acid productivity, especially L-lysine and L-arginine productivities.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:4392 USPATFULL  
TITLE: Method for producing L-lysine or  
L-arginine by using  
methanol-assimilating bacterium  
INVENTOR(S): Gunji, Yoshiya, Kawasaki, JAPAN  
Yasueda, Hisashi, Kawasaki, JAPAN

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20050003495	A1	20050106
	US 7335506	B2	20080226
APPLICATION INFO.:	US 2003-716470	A1	20031120 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2002-336340	20021120
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	AJINOMOTO CORPORATE SERVICES, LLC, INTELLECTUAL PROPERTY DEPARTMENT, 1120 CONNECTICUT AVE., N.W., WASHINGTON, DC, 20036	
NUMBER OF CLAIMS:	9	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	1485	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 3 OF 7 USPATFULL on STN  
TI Method for producing L-amino acid using methylotroph  
AB A DNA encoding for a mutant of LysE protein  
, or a homologous protein thereof, of a coryneform bacterium, wherein  
the mutant, when introduced into a methanol-assimilating bacterium  
imparts resistance to L-lysine analogue. The  
DNA encoding for a mutant of LysE protein,  
or a homologous protein thereof, is introduced into a  
methanol-assimilating bacterium to improve L-lysine  
and L-arginine productivity of the  
methanol-assimilating bacterium.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:190204 USPATFULL  
TITLE: Method for producing L-amino acid using methylotroph  
INVENTOR(S): Gunji, Yoshiya, Kawasaki, JAPAN  
Yasueda, Hisashi, Kawasaki, JAPAN

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20040146974	A1	20040729
APPLICATION INFO.:	US 2003-716480	A1	20031120 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2002-336315	20021120
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	

LEGAL REPRESENTATIVE: AJINOMOTO CORPORATE SERVICES, LLC, INTELLECTUAL  
PROPERTY DEPARTMENT, 1120 CONNECTICUT AVE., N.W.,  
WASHINGTON, DC, 20036

NUMBER OF CLAIMS: 9

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 1 Drawing Page(s)

LINE COUNT: 1414

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 4 OF 7 USPATFULL on STN

TI Method for producing L-amino acid using methylotroph

AB The present invention describes a method for producing an L-amino acid comprising culturing a microorganism having an ability to produce an L-amino acid in a medium, whereby the L-amino acid accumulates in the medium, and collecting the L-amino acid from the medium, whereby said microorganism comprises a methanol-utilizing bacterium having the Entner-Doudoroff pathway in which 6-phosphogluconate dehydratase activity and/or 2-keto-3-dexoy-6-phosphogluconate aldolase activity is enhanced.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:184552 USPATFULL

TITLE: Method for producing L-amino acid using methylotroph

INVENTOR(S): Gunji, Yoshiya, Kawasaki, JAPAN  
Yasueda, Hisashi, Kawasaki, JAPAN

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20040142435	A1	20040722
	US 7217543	B2	20070515
APPLICATION INFO.:	US 2003-716473	A1	20031120 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2002-336346	20021120
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	AJINOMOTO CORPORATE SERVICES, LLC, INTELLECTUAL PROPERTY DEPARTMENT, 1120 CONNECTICUT AVE., N.W., WASHINGTON, DC, 20036	

NUMBER OF CLAIMS: 6

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 2 Drawing Page(s)

LINE COUNT: 1528

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 5 OF 7 USPATFULL on STN

TI Method for producing L-lysine or L-arginine by using methanol assimilating bacterium

AB A DNA encoding a variant of a protein, having a loop region and six hydrophobic helixes and involved in excretion of L-lysine to outside of a cell, wherein the DNA encodes a mutant protein not containing the loop region that is contained in a wild-type protein and facilitates excretion of L-lysine, L-arginine or both of these L-amino acids to outside of a cell of a methanol assimilating bacterium when the DNA is introduced into the bacterium, specifically lysE24, is introduced into a methanol assimilating bacterium such as Methylophilus bacteria to improve L-amino acid productivity, especially L-lysine and L-arginine productivities.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:180857 USPATFULL  
TITLE: Method for producing L-lysine or  
L-arginine by using methanol  
assimilating bacterium  
INVENTOR(S): Gunji, Yoshiya, Kawasaki-shi, JAPAN  
Yasueda, Hisashi, Kawasaki-shi, JAPAN  
PATENT ASSIGNEE(S): Ajinomoto Co., Inc., Tokyo, JAPAN (non-U.S.  
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20030124687	A1	20030703
	US 7169587	B2	20070130
APPLICATION INFO.:	US 2002-166142	A1	20020611 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2001-177075	20010612
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET, ALEXANDRIA, VA, 22314	
NUMBER OF CLAIMS:	11	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	1234	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 6 OF 7 WPIDS COPYRIGHT 2008 THOMSON REUTERS on STN  
TI New DNA encoding mutant form of LysE protein  
, useful for transformation of methanol-utilizing bacteria for  
production of lysine and arginine, also new transformants  
AN 2004-403037 [38] WPIDS  
AB FR 2847264 A1 UPAB: 20060121  
NOVELTY - DNA (I) that encodes a mutant (II) of the LysE  
(lysine export) protein of a coryneform bacterium, or its homolog, is new.  
DETAILED DESCRIPTION - DNA (I) that encodes a mutant (II)  
of the LysE (lysine export) protein of a coryneform bacterium, or its  
homolog, is new. (II) is a 236 amino acid (aa) sequence (2), reproduced,  
in which at least Gly56 has been replaced by a different aa, optionally  
with one or more other aa substituted, deleted, inserted or added. When  
(I) is introduced into a methanol-utilizing bacterium it confers  
resistance to a lysine analog (III).  
INDEPENDENT CLAIMS are also included for:  
(1) bacterium (A) of the genera Methylophilus or Methylobacillus  
into which (I) has been introduced, in expressible form, and which can  
produce L-Lys or L-Arg; and  
(2) producing L-Lys and L-Arg by culturing (A).  
USE - Bacteria of the genera Methylophilus or Methylobacillus that  
contain (I) are used for production of L-  
lysine or L-arginine.  
ADVANTAGE - Introduction of (I) induces export of Lys and/or Arg  
from the cells, so improves productivity of these amino acids, from an  
inexpensive carbon source, and their concentration in the extracellular  
medium. The wild-type LysE sequence is not functional in  
methanol-utilizing bacteria.  
ACCESSION NUMBER: 2004-403037 [38] WPIDS  
DOC. NO. CPI: C2004-151152 [38]  
TITLE: New DNA encoding mutant form of LysE  
protein, useful for transformation of

methanol-utilizing bacteria for production of  
lysine and arginine, also new transformants  
DERWENT CLASS: B05; D16; E16  
INVENTOR: GUNJI Y; YASUEDA H  
PATENT ASSIGNEE: (AJIN-C) AJINOMOTO CO INC; (AJIN-C) AJINOMOTO KK;  
(GUNJ-I) GUNJI Y; (YASU-I) YASUEDA H  
COUNTRY COUNT: 5

PATENT INFO ABBR.:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
FR 2847264	A1	20040521	(200438)*	FR	52	[1]
JP 2004166592	A	20040617	(200440)	JA	39	
US 20040146974	A1	20040729	(200450)	EN		
DE 10352668	A1	20040812	(200453)	DE		
CN 1618970	A	20050525	(200560)	ZH		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
FR 2847264	A1	FR 2003-13574	20031120
JP 2004166592	A	JP 2002-336315	20021120
DE 10352668	A1	DE 2003-10352668	20031111
US 20040146974	A1	US 2003-716480	20031120
CN 1618970	A	CN 2003-10120453	20031120

PRIORITY APPLN. INFO: JP 2002-336315 20021120

L6 ANSWER 7 OF 7 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN  
 TI New DNA encoding mutant form of LysE protein  
 , useful for transformation of methanol-utilizing bacteria for  
 production of lysine and arginine, also new transformants;  
 plasmid-mediated lysE gene transfer and expression in Methylophilus  
 methylotropus or Methylobacillus sp. for recombinant amino acid  
 production  
 AN 2004-16510 BIOTECHDS  
 AB DERWENT ABSTRACT:  
 NOVELTY - DNA (I) that encodes a mutant (II) of the LysE  
 (lysine export) protein of a coryneform bacterium, or its homolog, is  
 new.  
 DETAILED DESCRIPTION - DNA (I) that encodes a mutant (II)  
 of the LysE (lysine export) protein of a coryneform bacterium, or its  
 homolog, is new. (II) is a 236 amino acid (aa) sequence (2), reproduced,  
 in which at least Gly56 has been replaced by a different aa, optionally  
 with one or more other aa substituted, deleted, inserted or added. When  
 (I) is introduced into a methanol-utilizing bacterium it confers  
 resistance to a lysine analog (III). INDEPENDENT CLAIMS are also included  
 for: (1) bacterium (A) of the genera Methylophilus or Methylobacillus  
 into which (I) has been introduced, in expressible form, and which can  
 produce L-Lys or L-Arg; and (2) producing L-Lys and L-Arg by culturing  
 (A).  
 BIOTECHNOLOGY - Preferred Nucleic Acid: (I) is (a) a 711 bp sequence  
 (1), reproduced, from Brevibacterium lactofermentum, that has been  
 mutated to replace at least the codon for 56Gly or (b) a sequence (or  
 derived probe) that hybridizes to (1) under stringent conditions.  
 Preferably 56Gly is replaced by Ser and other modifications are  
 particularly 55Ala replaced by Thr and 137Asp by Gly. Preferred  
 Materials: (III) is S-(2-aminoethyl)  
 cysteine. Preferred Process: Methanol-utilizing cells of the



genera *Methylophilus* or *Methylobacillus* are grown on medium containing methanol as main carbon source. Optionally the activity of other genes involved in biosynthesis of the specified amino acids is also increased. Preparation: (I) is derived from the wild-type *lysE* gene by standard methods of site-specific or random mutagenesis, e.g. using hydroxylamine or UV light. The mutated sequence is cloned into a vector functional in methanol-utilizing bacteria, particularly a high-copy number vector, or into a transposon for chromosomal integration, and the resulting constructs used conventionally for cell transfection. The modified cells are grown on medium containing 0.001-30% methanol, under aerated conditions at pH 5-7 and 20-45 degreesC, for typically 24-120 hours. L-Lys and L-Arg are recovered from the culture medium e.g. using an ion-exchange resin.

USE - Bacteria of the genera *Methylophilus* or *Methylobacillus* that contain (I) are used for production of L-lysine or L-arginine.

ADVANTAGE - Introduction of (I) induces export of Lys and/or Arg from the cells, so improves productivity of these amino acids, from an inexpensive carbon source, and their concentration in the extracellular medium. The wild-type *LysE* sequence is not functional in methanol-utilizing bacteria.

EXAMPLE - The *lysE* gene of *Brevibacterium lactofermentum* 2256 (ATCC 13869) was cloned into pRS to form pRlysE, and this subjected to mutation using hydroxylamine. The mutated plasmids were introduced into *Methylophilus methylotropus* AS1 (NCIMB 10515) and cells selected for resistance to S-(2-aminoethyl) cysteine. Plasmid pRSlysE564 in which 56Gly had been replaced by Ser was identified. When strain AS1 was transformed with pRSlysE564 that also included the *dapA* gene for feedback-resistant dihydrodipicolinate synthase, then cultured in methanol-containing medium for 34 hours at 37 degreesC, with stirring, the concentration of L-lysine in the culture supernatant was 1.4 g/l; compare 0.1 g/l for AS1 containing empty vector. (52 pages)

ACCESSION NUMBER: 2004-16510 BIOTECHDS

TITLE: New DNA encoding mutant form of *LysE* protein, useful for transformation of methanol-utilizing bacteria for production of lysine and arginine, also new transformants; plasmid-mediated *lysE* gene transfer and expression in *Methylophilus methylotropus* or *Methylobacillus* sp. for recombinant amino acid production

AUTHOR: GUNJI Y; YASUEDA H

PATENT ASSIGNEE: AJINOMOTO CO INC

PATENT INFO: FR 2847264 21 May 2004

APPLICATION INFO: FR 2003-13574 20 Nov 2003

PRIORITY INFO: JP 2002-336315 20 Nov 2002; JP 2002-336315 20 Nov 2002

DOCUMENT TYPE: Patent

LANGUAGE: French

OTHER SOURCE: WPI: 2004-403037 [38]

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